**import** java.util.Scanner;

**public** **class** BinarySearch {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int**[] a= {11,32,44,87,76,73,80,85,90};

Scanner s= **new** Scanner(System.***in***);

System.***out***.println("Enter the number to search");

**int** srch=s.nextInt();

**int** li=0;

**int** hi= a.length-1;

**int** mi=(li+hi)/2;

**while**(li<= hi) {

**if**(a[mi]== srch) {

System.***out***.println("element is at "+mi+" index position");

**break**;

}

**else** **if**(a[mi]<srch) {

li=mi+1;

}

**else** {

hi=mi-1;

}

mi=(li+hi)/2;

}

**if**(li>hi) {

System.***out***.println("element not found");

}

}

}